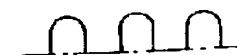
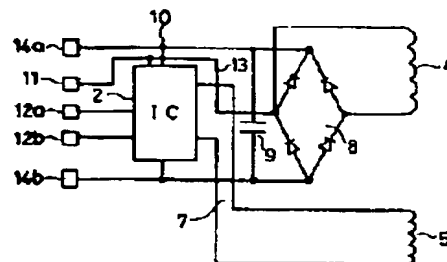


Patent Abstracts of Japan

TITLE : IC CARD



CONSTITUTION: In the contact system and the non-contact systems, power can be supplied to one terminal 10 of an IC 2 by full wave rectification of the waveform due to electromagnetic coupling of non-contact. After a clock is detected by a power rectifying circuit in the non-contact system, the clock is generated from a contact end by an internal circuit. Since signals in the non-contact system and the contact system are different from each other with respect to data transmission and reception, independent input/output terminals are assigned to the IC 2. That is, one IC can cope with both systems. The power waveform of non-contact is made continuous by a full-wave rectifying circuit 8 and is smoothed to DC power by a smoothing circuit consisting of a smoothing capacitor 9. The clock waveform has the pulse waveform detected and is supplied to the IC 2. Thus, the contact system and the non-contact system are built in one IC card.

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